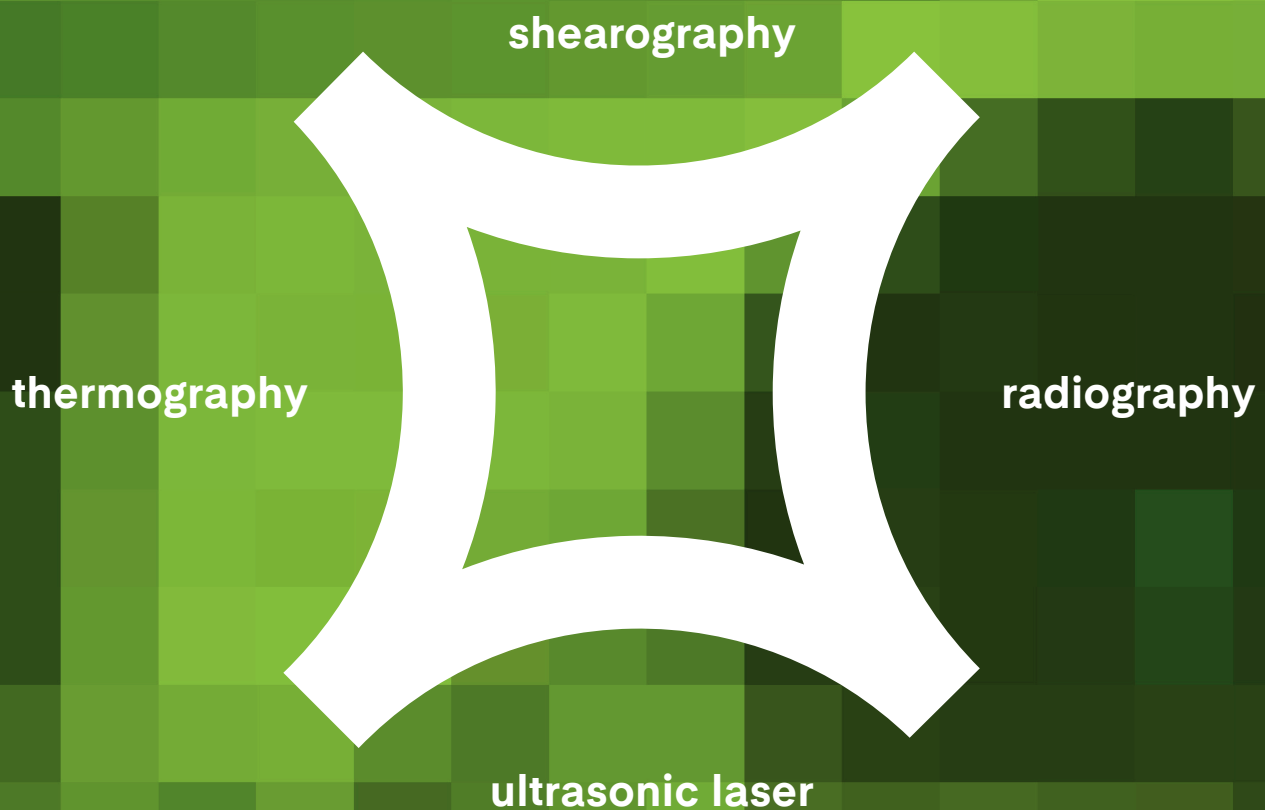


# LDCOMP

Non-Destructive Testing of composite materials using digital methods



LDCOMP is a project funded by the Walloon Region, MESI (Quebec Ministry of Economy, Science and Innovation) and NSERC (Natural Sciences and Engineering Research Council of Canada), labelled by Skywin and CRIAQ, coordinated by Optrion, including Walloon and Quebec partners



# LDCOMP



Non-Destructive Testing of composite materials using digital methods

## Applications

Composite structures of big size and / or complex geometry, especially those from Aeronautics but not only!

## Goal of the project

- 100% of composite parts inspected over 100% of their geometry & 100% of detected defects
- with an increased productivity of NDT processes by robotizing most advanced digital Non-Destructive Inspection technologies.

## Why?

- Critical composite structures have to be fully inspected
- Classical processes are time-consuming and require a contact between the probe and the sample

## How?

Thanks to :

- Full-field and contactless non-destructive inspection techniques: ST, IRT, RT, Laser UT
- Advanced softwares for robot arm path control and automated defect recognition tools
- Data fusion techniques

## Deliverables

- Full range of certified methods (EN4179 & NADCAP) dedicated to non-destructive inspection of composite materials and available for all fields of industry
- Accredited laboratory dedicated to :
  - composite structures inspection during engineering phase
  - development, validation and accreditation of non-destructive inspection tools and methods to install on production lines
- Manufacturing of robotized inspection solutions and commissioning on production lines
- Accredited training courses dedicated to these emerging digital techniques

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